PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference	FOR FURTHER	see Form PCT/ISA/220
150388/KB	ACTION 5	is well as, where applicable, item 5 below.
International application No.	International filing date (day/month/yea	(Earliest) Priority Date (day/month/year)
PCT/CZ2004/000085	14/12/2004	16/12/2003
Applicant	·	
PLIVA-LACHEMA A.S.		
This International Search Report has been according to Article 18. A copy is being tra	n prepared by this International Searchir ansmitted to the International Bureau.	g Authority and is transmitted to the applicant
This International Search Report consists	of a total of sheets	
X It is also accompanied by	a copy of each prior art document cited	in this report.
Basis of the report a. With regard to the language, the language in which it was filed, units to the language.	international search was carried out on less otherwise indicated under this Item.	the basis of the International application in the
The international this Authority (Ru		translation of the international application furnished to
b. With regard to any nucle	otide and/or amino acid sequence dis	closed in the international application, see Box No. I.
2. Certain claims were fou	nd unsearchable (See Box II).	
3. Unity of invention is lac	king (see Box III).	
4. With regard to the title,		
X the text is approved as se	ubmitted by the applicant.	
the text has been establis	shed by this Authority to read as follows:	
5. With regard to the abstract,		
1 —	ubmitted by the applicant.	
the text has been establimay, within one month fr	shed, according to Rule 38.2(b), by this orn the date of mailing of this internation	Authority as it appears in Box No. IV. The applicant al search report, submit comments to this Authority.
6. With regard to the drawings,		
_	published with the abstract is Figure No.	
as suggested by		de avende figure
	his Authority, because the applicant faile	
	nis Authority, because this figure better on published with the abstract.	iididueiizes die myendon.
b. X none of the figures is to	De published with the abstract.	

International application No.

INTERNATIONAL SEARCH REPORT

PCT/CZ2004/000085

Box No. IV Text of the abstract (Continuation of item 5 of the first sheet)

The method of manufacturing of 7-ethyl-10-hydroxycamptothecin of formula I characterized in that 7-ethyl-1,2,6,7-tetrahydrocamptothecin of formula IV is oxidized with an oxidizing agent selected from the group comprising iodosobenzene, an ester of iodosobenzene, sodium periodate, potassium periodate, potassium peroxodisulfate and ammonium peroxodisulfate, in a solvent formed by a saturated aliphatic monocarboxylic acid containing 1 to 3 carbon atoms, and in the presence of water.

INTERNATIONAL SEARCH REPORT

International Application No PCT/CZ2004/000085

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 C07D491/22

//(C07D491/22,311:00,221:00,221:00,209:00)

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols) $IPC\ 7\ C07D$

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, BEILSTEIN Data, CHEM ABS Data

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	WOOD J L ET AL: "An Efficient Conversion of Camtothecin to 10-Hydroxycamptothecin" JOURNAL OF ORGANIC CHEMISTRY, AMERICAN CHEMICAL SOCIETY. EASTON, US, vol. 60, 1995, pages 5739-5740, XP002323603 ISSN: 0022-3263 page 5739, right-hand column, paragraph 1 - page 5740, left-hand column, last paragraph; examples; compounds 4,2	1-22
Y	US 4 473 692 A (MIYASAKA ET AL) 25 September 1984 (1984-09-25) column 7, line 11 - line 62; claim 37; example 7 column 9, line 28 - line 64	1-22

Further documents are listed in the continuation of box C.	χ Patent family members are listed in annex.
Special categories of cited documents: 'A' document defining the general state of the art which is not considered to be of particular relevance 'E' earlier document but published on or after the international filling date 'L' document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) 'O' document referring to an oral disclosure, use, exhibition or other means 'P' document published prior to the international filing date but later than the priority date claimed	 'T' later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention. 'X' document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone. 'Y' document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. '&' document member of the same patent family
Date of the actual completion of the international search	Date of mailing of the international search report
7 April 2005	19/04/2005
Name and mailing address of the ISA	Authorized officer
European Patent Office, P.B. 5818 Patentlaan 2 NL – 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl. Fax: (+31-70) 340-3016	Härtinger, S

1

INTERNATIONAL SEARCH REPORT

International Application No
PCT/CZ2004/000085

	ation) DOCUMENTS CONSIDERED TO BE RELEVANT	Delevent to alain No.
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 5 734 056 A (BURK ET AL) 31 March 1998 (1998-03-31) column 4, line 33 - column 5, line 67; claim 1; example 6 column 10, line 34 - column 12, line 46	1-22
Ρ,Χ	WO 2004/100897 A (SCINOPHARM TAIWAN, LTD) 25 November 2004 (2004-11-25) page 3 - page 5; claim 2 page 6, line 3 - page 7, line 17 page 4, line 25 - line 28	1-22

1

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No
PCT/CZ2004/000085

	Т	Dublication		Patent family	Publication
Patent document cited in search report		Publication date		member(s)	date
US 4473692	Α	25-09-1984	JP	1460819 C	14-10-1988
03 4473032			JP	58134095 A	10-08-1983
			JP	63006070 B	08-02-1988
			JP	1460820 C	14-10-1988
			JP	58152888 A	10-09-1983
			JP	63006071 B	08-02-1988
			JP	1438947 C	19-05-1988
			JP	58039683 A	08-03-1983
			JP	62047193 B	06-10-1987
			JP	1438948 C	19-05-1988
			JP	58039684 A	08-03-1983
			JP	62047194 B	06-10-1987
			CA	1246576 A1	13-12-1988
			DE	3274351 D1	08-01-1987
			EP	0074256 A1	16-03-1983
			US	4545880 A	08-10-1985
			BR	1100879 A3	14-03-2000
US 5734056	Α	31-03-1998	AT	186461 T	15-11-1999
			AU	664830 B2	07-12-1995
			AU	8739991 A	28-04-1992
			CA	2090967 A1	29-03-1992
			CN	1062731 A	
			CZ	9300515 A3	
			DE	69131775 D1	
			DE	69131775 T2	
			DK	547165 T3	
			EP	0547165 A1	
			ES	2137932 T3	
			FΙ	931384 A	26-03-1993
			GR	3031823 T3	
			HK	1012283 AI	
			HU	70024 A2	
			ΙE	913402 A1	08-04-1992
			ΙL	99571 A	31-08-2000
			JP	2848958 B2	
			JP	6501476 T	17-02-1994
			NO	931153 A	26-03-1993
			NZ	239947 A	26-07-1994
			PT	99109 A	,B 31-08-1992
			SI	9111599 A	28-02-1998
			SK	25993 A3	
			WO	9205785 A	
			ZA	9107748 A	30-09-1992
WO 2004100897	Α	25-11-2004	US	2004235878 A	
WO 2004100097			WO	2004100897 A	